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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,986	12/11/2001	Jung-Chih Chiao	A-68000/MSS	1421
7	7590 01/11/2005		EXAM	INER
Flehr Hohbach Test			VANNUCCI, JAMES	
Albritton & Herbert Four Embarcadero Center			ART UNIT	PAPER NUMBER
Suite 3400			2828	
San Francisco, CA 94111-4187			DATE MAILED: 01/11/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/009,986	CHIAO, JUNG-CHIH			
	Chiec Action Guilliary	Examiner	Art Unit			
The MAILING DATE of the annual "		Jim Vannucci	2828			
Period fo	The MAILING DATE of this communica or Reply	uon appears on the cover sheet v	vith the correspondence address			
THE - External after - If the - If NC - Failu	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA naions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) of the period for reply is specified above, the maximum statutor or to reply within the set or extended period for reply will, reply received by the Office later than three months after ad patent term adjustment. See 37 CFR 1.704(b).	ATION. 7 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of the pry period will apply and will expire SIX (6) MC by statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BRANDONED (35 U.S.C. § 133)			
Status			•			
1)[🛛	Responsive to communication(s) filed of	on 12 October 2004				
		☐ This action is non-final.				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠ 5)□ 6)⊠ 7)⊠	Claim(s) 13-23 is/are pending in the ap 4a) Of the above claim(s) is/are value (Claim(s) is/are allowed. Claim(s) 13-16 is/are rejected. Claim(s) 17-23 is/are objected to. Claim(s) are subject to restriction	withdrawn from consideration.				
Applicati	on Papers					
9)[The specification is objected to by the E	xaminer.				
10)🛛	The drawing(s) filed on <u>09 June 2000</u> is	/are: a)⊠ accepted or b)⊡ obj	ected to by the Examiner.			
	Applicant may not request that any objectio					
44)	Replacement drawing sheet(s) including the		· · · · · · · · · · · · · · · · · · ·			
11)[The oath or declaration is objected to by	the Examiner. Note the attache	d Office Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International see the attached detailed Office action for	cuments have been received. cuments have been received in a he priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage			
Attachmen	(s)					
1) 🔯 Notic	e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)			
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449 or PTO No(s)/Mail Date	.948) Paper No	(s)/Mail Date Informal Patent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Budrow et al.(3,665,477) in view of Brankovic(6,198,460).

Claim 13, figure 4 of Budrow discloses transmission line conductors(30), rotating antenna arms(16 & 22), and rotatably coupled support arms(40).

Budrow discloses a single actuator mechanism(38; and col. 4, lines 58-60) functioning as recited.

Figure 4 of Brankovic discloses using two actuator mechanisms to adjust the direction of the radiated field of an antenna(7; and col. 5, lines 15-23).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use two actuator mechanisms as disclosed in Brankovic instead of one as disclosed in Budrow for improved steering of the antenna's radiated field as disclosed in Budrow.

3. Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Budrow in view of Brankovic as applied above, and further in view of Faulkner et al.(6,023,209).

Budrow and Brankovic do not disclose CPS or CPW transmission lines.

Claims 14-15, Faulkner discloses the use of CPW and CPS transmission lines to suppress undesired electrical propagation(col. 1, lines 8-9 and 58-67).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use the transmission lines disclosed in Faulkner with the device disclosed in Budrow and Brankovic to improve suppression of undesired signals as disclosed in Faulkner.

4. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Budrow in view of Brankovic as applied above, and further in view of Knipe et al.(5,652,671).

Budrow and Brankovic do not disclose micro-mechanical hinges.

Claim 16, Budrow discloses three hinges(44, 42 & 26), and Knipe discloses the use of micro-mechanical hinges in electrical circuitry for the miniaturization of the electrical device(col. 1, lines 9-15).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use micro-mechanical hinges as disclosed in Knipe in the device disclosed in Budrow and Brankovic so the device can be made smaller as disclosed in Knipe.

Allowable Subject Matter

5. Claims 17-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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6. The following is a statement of reasons for the indication of allowable subject matter. The following limitations are primarily responsible for distinguishing these claims over the prior art.

Regarding claims 17-20, all of the limitations concerning the first micro-mechanical hinge structure; and regarding claims 21-23, all of the limitations concerning the second and third micro-mechanical hinge structure.

Proper motivation was not found in the prior art to combine references disclosing the recited hinge structure with the references that disclose the other limitations recited in these claims.

Election/Restrictions

7. Claims 1-12 and 24-62 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on October 12, 2004.

Correspondence

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Jim Vannucci whose phone number is (571) 272-1820.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center whose telephone number is (703) 308-0956.

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Papers related to Technology Center 2800 applications only may be submitted to Technology Center 2800 by facsimile transmission. Any transmission not to be considered an official response must be clearly marked "DRAFT". The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center Fax Center number is (703) 872-9306.

James Vannucci